

## **Amendments to the Drawings**

The attached replacement drawing sheet contains proposed amended Figure 4b. No new matter has been added.

A detailed listing of the changes to the drawings is provided, as follows:

**Figure 4b** has been amended in order to agree with the text that is presented in the detailed description at paragraph [0037]. In particular, Applicant teaches at paragraph [0037] “the primary positive pulse is composed of a square wave with a low side 47 near zero volts and a high side 45 at an adjustable value (for example +5 V as shown at Figure 4b). The primary negative pulse is composed of a square wave with a high side 50 near zero volts and negative side 55 at an adjustable voltage (for example -5 V as shown at Figure 4b). As shown in the timing diagram of Figure 4b, the pulses are applied in an alternating fashion, wherein the voltage 45 is applied on the primary positive pulse while voltage 50 is applied on the primary negative pulse. Similarly, the voltage 47 is applied on the primary positive pulse while voltage 55 is applied on the primary negative pulse.” Applicant respectfully submits that the proposed amendment merely corrects Figure 4b to show that which is described at paragraph [0037].

Attachment: Replacement Sheet for Figures 4b and 5 following page 12 of this paper.

### **Remarks/Arguments**

The application currently contains claims 1-21. New claims 22-25 have been added. Applicant wishes to present claims 1-25 for further consideration by the Examiner. Claims 1, 3, 5 and 6 are currently amended.

### **Amendments to the Specification**

The specification has been amended in order to perfect priority under 35 U.S.C. 119(e). Paragraph [000], providing a statement including a specific relationship between the instant application and the domestic priority document, has been added after the title of the invention and above Field of the Invention. No new matter has been added.

The specification also has been amended at paragraphs [0028], [0037] and [0039].

Paragraph [0028], third sentence, has been amended to read “The combined inductances of IN1 and IN2 are selected to oscillate in tuned resonance with a capacitance of C3 combined in parallel with the capacitance ~~all~~ of the rest of the circuit attached to the secondary windings of IN3 and IN4, namely C4, and FAIMS load plus all other stray capacitances throughout the circuit.” The proposed amendment is intended merely to clarify the description.

Paragraph [0037], second sentence, has been amended to read “A similar approach is taken for IN1b and IN2b in ~~Figures 2b and~~ Figure 3a but using one center-tapped primary winding rather than two completely independent primary windings as shown in Figure 2a and Figure 2b 4a.” The proposed amendment is intended merely to correct minor errors related to referencing the various figures.

Paragraph [0037], fifteenth sentence, has been amended to read “The voltage induced in the secondary winding is related to the number of times the secondary winding 24 is wrapped around the core 14 relative to the number of times that primary winding 20 or ~~and~~ 22 is wrapped around core 14.”

Paragraph [0039], fifth sentence, has been amended to read “The set of parallel primary windings 34 and 36 from the drive circuit are wrapped external to the turns of the secondary winding 30, and are spaced away from the core 32 and from the secondary winding 30 by an air gap to prevent electrical discharge and capacitive coupling between the primary windings (either 34 or 36) and the secondary winding 30.” The proposed amendment is intended merely to clarify the description.

#### **Amendments to the Claims**

Applicant has amended claim 1 in order to more clearly define that subject matter which Applicant considers to be inventive. In particular, the expression “varying the output electrical signal about the first periodically varying electrical signal” has been amended to read -- adding a component at the second frequency to the output electrical signal --. An example of support for the proposed amendment may be found in the application as originally filed at paragraph [0027]. No new matter has been added.

Claims 3, 5 and 6 have been amended in order to more clearly define that subject matter which Applicant considers to be the invention. No new matter has been added.

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Respectfully submitted,



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